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| A. Bytnerowicz, M. Tran and P. Anderson | 1355 | Effects of charcoal air filtration and ozone generation on concentrations of some N and S compounds in open-top field chambers |
| W. A. H. Asman | 1359 | Parameterization of below-cloud scavenging of highly soluble gases under convective conditions |
| A. Bytnerowicz and G. Riechers | 1369 | Nitrogenous air pollutants in a mixed conifer stand of the western Sierra Nevada, California |
| J. Berglund and L. I. Elding | 1379 | Manganese-catalysed autoxidation of dissolved sulfur dioxide in the atmospheric aqueous phase |

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| M. A. Sutton, C. J. Place, M. Eager, D. Fowler and R. I. Smith | 1393 | Assessment of the magnitude of ammonia emissions in the United Kingdom |
| H. Coe, M. W. Gallagher, T. W. Choularton and C. Dore | 1413 | Canopy scale measurements of stomatal and cuticular O ₃ uptake by Sitka Spruce |
| L. L. Burrell, L. Q. Tang and T. T. H. Tsang | 1425 | On a least-squares finite element method for advective transport in air pollution modeling |
| K. Pleijel and J. Munthe | 1441 | Modelling the atmospheric mercury cycle— chemistry in fog droplets |
| G. J. Esplin | 1459 | Approximate explicit solution to the general line source problem |
| H. W. Vallack | 1465 | <i>Technical Note</i> A field evaluation of Frisbee-type dust deposit gauges |
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| T. L. Thatcher and D. W. Layton | 1487 | Deposition, resuspension, and penetration of particles within a residence |
| Rong Lu and R. P. Turco | 1499 | Air pollutant transport in a coastal environment—II. Three-dimensional simula- tions over Los Angeles basin |
| A. Y. Ali-Mohamed, K. E. Maki, A. A. A. Saeed, A. M. Abdulla and M. I. Abdulla | 1519 | Estimation of inorganic particulate matter in atmospheres of villages in Bahrain, by dry fall |
| A. C. Lewis, D. Kupiszewska, K. D. Bartle and M. J. Pilling | 1531 | City centre concentrations of polycyclic aromatic hydrocarbons using supercritical fluid extraction |
| M. M. Préndez, M. Egido, C. Tomas, J. Seco, A. Calvo and H. Romero | 1543 | Correlation between solar radiation and total suspended particulate matter in Santiago, Chile—preliminary results |
| A. Dyremark, R. Westerholm, E. Övervik and J.-Å. Gustavsson | 1553 | Polycyclic aromatic hydrocarbon (PAH) emissions from charcoal grilling |
| N. Kaneyasu, S. Ohta and N. Murao | 1559 | Seasonal variation in the chemical composition of atmospheric aerosols and gaseous species in Sapporo, Japan |
| C. D. Geron, T. E. Pierce and A. B. Guenther | 1569 | Reassessment of biogenic volatile organic compound emissions in the Atlanta area |
| D. Ruffieux | 1579 | Winter surface energy budget in Denver, Colorado |
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| P. M. Midgley and A. McCulloch | 1601 | The production and global distribution of emissions to the atmosphere of 1,1,1-trichloroethane (methyl chloroform) |
| S. C. Pryor, T. D. Davies, T. E. Hoffer and M. B. Richman | 1609 | The influence of synoptic scale meteorology on transport of urban air to remote locations in the southwestern United States of America |
| P. K. Jensen and W. A. H. Asman | 1619 | General chemical reaction simulation applied to below-cloud scavenging |
| S. Yamulki, K. W. T. Goulding, C. P. Webster and R. M. Harrison | 1627 | Studies on NO and N ₂ O fluxes from a wheat field |
| H. Mukai, Y. Yokouchi and M. Suzuki | 1637 | Seasonal variation of methanesulfonic acid in the atmosphere over the Oki Islands in the Sea of Japan |
| J. D. Shannon and E. C. Voldner✕ | 1649 | Modeling atmospheric concentrations of mercury and deposition to the Great Lakes |
| S. Potukuchi and A. S. Wexler | 1663 | Identifying solid-aqueous phase transitions in atmospheric aerosols—I. Neutral-acidity solutions |
| L. Granat and A. Richter | 1677 | Dry deposition to pine of sulphur dioxide and ozone at low concentration |
| E. S. C. Kwok and R. Atkinson | 1685 | Estimation of hydroxyl radical reaction rate constants for gas-phase organic compounds using a structure-reactivity relationship: an update |
| T. Arakaki, C. Anastasio, P. G. Shu and B. C. Faust | 1697 | Aqueous-phase photoproduction of hydrogen peroxide in authentic cloud waters: wavelength dependence, and the effects of filtration and freeze-thaw cycles |
| P. Anttila, P. Paatero, U. Tapper and O. Järvinen | 1705 | Source identification of bulk wet deposition in Finland by positive matrix factorization |
| L. A. Gundel, V. C. Lee, K. R. R. Mahanama, R. K. Stevens and J. M. Daisey | 1719 | Direct determination of the phase distributions of semi-volatile polycyclic aromatic hydrocarbons using annular denuders |
| R. M. Hoff, R. E. Mickle and C. Fung | 1735 | Vertical profiles of ozone during the EMEFS I experiment in Southern Ontario |
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| F. O. Hoffman, K. M. Thiessen and R. M. Rael | 1771 | Comparison of interception and initial retention of wet-deposited contaminants on leaves of different vegetation types |
| V. L. Foltescu and A. Zahn | 1777 | Aerosols used as tracers for stratosphere-troposphere exchange in the Arctic |
| O. M. Saether, B. Th. Andreassen and A. Semb | 1785 | Amounts and sources of fluoride in precipitation over southern Norway |
| J. R. Brook | 1795 | Wet acid deposition episodicity in eastern North America and the influence of deposition episodes on annual deposition amounts |
| F. P. Carvalho | 1809 | Origins and concentrations of ²²² Rn, ²¹⁰ Pb, ²¹⁰ Bi and ²¹⁰ Po in the surface air at Lisbon, Portugal, at the Atlantic edge of the European continental landmass |
| A. Molnár, E. Mészáros, K. Polyák, I. Borbély-Kiss, E. Koltay, Gy. Szabó and Zs. Horváth | 1821 | Atmospheric budget of different elements in aerosol particles over Hungary |
| M. Schwikowski, P. Seibert, U. Baltensperger and H. W. Gäggeler | 1829 | A study of an outstanding Saharan dust event at the high-alpine site Jungfraujoch, Switzerland |
| J.-P. Candelone, M. A. Bolshov, S. N. Rudniev, S. Hong and C. F. Boutron | 1843 | Bismuth in recent snow from Central Greenland: preliminary results |
| D. Danalatos, S. Glavas and H. Kambezidis | 1849 | Atmospheric nitric acid concentrations in a Mediterranean site, Patras, Greece |
| R. H. Maryon and M. J. Best | 1853 | Estimating the emissions from a nuclear accident using observations of radioactivity with dispersion model products |
| A. C. Lewis, P. W. Seakins, A. M. Denha, K. D. Bartle and M. J. Pilling | 1871 | Programmed temperature vaporization injection (PTV) for <i>in situ</i> field measurements of isoprene, and selected oxidation products in a eucalyptus forest |
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| W. N. Adger | 1905 | Compliance with the Climate Change Convention |
| <i>SECTION II: Global Changes</i> | | |
| J. R. E. Harger | 1919 | Air-temperature variations and ENSO effects in Indonesia, the Philippines and El Salvador. ENSO patterns and changes from 1866-1993 |
| J. R. E. Harger | 1943 | ENSO variations and drought occurrence in Indonesia and the Philippines |
| J. R. Christy and J. D. Goodridge | 1957 | Precision global temperatures from satellites and urban warming effects of non-satellite data |
| R. C. Raghava, K. Laval, R. Sadourny and J. Polcher | 1963 | Atmospheric response to tropical denuding of vegetation |
| S. K. Dash, S. Selvakumar and B. Jha | 2001 | Climate modelling using parallel processors |
| M. J. Leach and S. Raman | 2009 | Role of radiative transfer in maintenance and destruction of stratocumulus clouds |
| <i>SECTION III: Air Chemistry</i> | | |
| L. T. Khemani, G. A. Momin, P. S. P. Rao, R. Vijayakumar and P. D. Safai | 2021 | Study of surface ozone behaviour at urban and forested sites in India |
| P. S. P. Rao, G. A. Momin, P. D. Safai, A. G. Pillai and L. T. Khemani | 2025 | Rain water and throughfall chemistry in the Silent Valley forest in South India |
| U. Hertstein, L. Grünhage and H.-J. Jäger | 2031 | Assessment of past, present, and future impacts of ozone and carbon dioxide on crop yields |
| Y. S. Fung and L. W. Y. Wong | 2041 | Apportionment of air pollution sources by receptor models in Hong Kong |
| <i>SECTION IV: Turbulence and Dispersion</i> | | |
| M. Sharan, A. Kumar Yadav and M. P. Singh | 2051 | Comparison of sigma schemes for estimation of air pollutant dispersion in low winds |
| M. Sharan, R. T. McNider, S. G. Gopalakrishnan and M. P. Singh | 2061 | Bhopal gas leak: a numerical simulation of episodic dispersion |
| M. Mohan, T. S. Panwar and M. P. Singh | 2075 | Development of dense gas dispersion model for emergency preparedness |
| P. Agarwal, A. Kumar Yadav, A. Gulati, S. Raman, S. Rao, M. P. Singh, S. Nigam and N. Reddy | 2089 | Surface layer turbulence processes in low wind speeds over land |

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| Z. Boybeyi and S. Raman | 2099 | Simulation of elevated long-range plume transport using a mesoscale meteorological model |
| K. G. Rao, S. Raman, A. Prabhu and R. Narasimha | 2113 | Turbulent heat flux variation over the Monsoon-Trough region during MONT-BLEX-90 |
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| K. Alapaty, S. Raman, U. C. Mohanty and R. V. Madala | 2139 | Sensitivity of monsoon circulations to changes in sea surface temperatures |
| M. Sharma, E. A. McBean and U. Ghosh | 2157 | Prediction of atmospheric sulphate deposition at sensitive receptors in Northern India |
| Xiaodong Hong, M. J. Leach and S. Raman | 2163 | Role of vegetation in generation of mesoscale circulation |
| N. C. Reddy and S. Raman | 2177 | Role of mesoscale circulations on monsoon rainfall over the west coast of India |
| M. Goel and Y. Ramanathan | 2191 | Study of rain episode in the desert region of the Indian summer monsoon trough |
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| P. C. S. Devara, P. E. Raj, S. Sharma and G. Pandithurai | 2205 | Real-time monitoring of atmospheric aerosols using a computer-controlled lidar |
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| F. M. Vukovich | 2259 | Regional-scale boundary layer ozone variations in the eastern United States and their association with meteorological variations |

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| N. Kubilay and A. C. Saydam | 2289 | Trace elements in atmospheric particulates over the Eastern Mediterranean; concentrations, sources, and temporal variability |
| J. A. Carvalho Jr, J. M. Santos, J. C. Santos, M. M. Leitão and N. Higuchi | 2301 | A tropical rainforest clearing experiment by biomass burning in the Manaus region |
| S. M. Aschmann and R. Atkinson | 2311 | Rate constants for the reactions of the NO_3 radical with alkanes at 296 ± 2 K |
| V. P. Gavrilov, N. V. Klepikova and H. C. Rodean | 2317 | Trial of a nonlinear diffusion equation as a model of turbulent diffusion |
| E. Cereda, G. M. Braga Marcazzan, M. Pedretti, G. W. Grime and A. Baldacci | 2323 | The microscopic nature of coal fly ash particles investigated by means of nuclear microscopy |
| J. C. S. Chang, K. K. Foarde and D. W. Vanosdell | 2331 | Growth evaluation of fungi (<i>Penicillium</i> and <i>Aspergillus spp.</i>) on ceiling tiles |
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| W. F. Ryan | 2387 | Forecasting severe ozone episodes in the Baltimore metropolitan area |
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| L. Enger and D. Koraćin | 2449 | Simulations of dispersion in complex terrain using a higher-order closure model |
| G. W. Reuter and S. Guan | 2467 | Effects of industrial pollution on cumulus convection and rain showers: a numerical study |
| E. Helmers and O. Schrems | 2475 | Wet deposition of metals to the tropical North and the South Atlantic Ocean |
| B. Fay, H. Glaab, I. Jacobsen and R. Schrodin | 2485 | Evaluation of Eulerian and Lagrangian atmospheric transport models at the Deutscher Wetterdienst using ANATEX surface tracer data |
| W. P. L. Carter, J. A. Pierce, D. Luo and I. L. Malkina | 2499 | Environmental chamber study of maximum incremental reactivities of volatile organic compounds |
| W. P. L. Carter | 2513 | Computer modeling of environmental chamber measurements of maximum incremental reactivities of volatile organic compounds |
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| D. A. Braaten | 2535 | <i>Technical Notes</i> A new technique to provide high time resolu- tion snowpack dating for stratigraphy and chemistry assessments |
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| S. M. Buhr, M. P. Buhr, F. C. Fehsenfeld, J. S. Holloway, U. Karst, R. B. Norton, D. D. Parrish and R. E. Sievers | 2609 | Development of a semi-continuous method for the measurement of nitric acid vapor and particulate nitrate and sulfate |
| M. Millet, H. Wortham and Ph. Mirabel | 2625 | Solubility of polyvalent cations in fogwater at an urban site in Strasbourg (France) |
| V. P. Gavrilov, N. V. Klepikova, N. I. Troyanova and H. C. Rodean | 2633 | Stationary model for resuspension of radionuclides and assessments of ^{137}Cs concentration in the near-surface layer for the contaminated areas in the Bryansk Region of Russia and Belarus |
| A. Bierbach, I. Barnes and K. H. Becker | 2651 | Product and kinetic study of the OH-initiated gas-phase oxidation of furan, 2-methylfuran and furanaldehydes at $\approx 300\text{ K}$ |
| N. B. Gibson, G. T. Costigan, R. P. J. Swannell and M. J. Woodfield | 2661 | Volatile organic compound (VOC) emissions during malting and beer manufacture |
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